U.S. Patent Application No. 10/593,914
Attorney Docket No. 10191/4329
Reply to Office Action of July 31, 2008

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-8. (Canceled).

9. (Currently Amended) A connection element configured for measuring force by a displacement between a magnet and a magnetic field sensor, comprising:

a holder, including the magnetic field sensor,

wherein being supported on the holder supports the magnetic field sensor in such a way that the magnetic field sensor is positioned into a zero line of a magnetic field of the magnet by a movement of the holder,

wherein the holder has a spring element so that when the holder is moved by a linear displacement, a clearance between the magnet and the magnetic field sensor is kept constant.

10. (Canceled).

- 11. (Previously Presented) The connection element as recited in claim 10, wherein the spring element is part of a sheet, the sheet being integrated in a plastic part of the holder.
- 12. (Previously Presented) The connection element as recited in claim 9, wherein the holder has a rounded form in at least one region, so that the holder is moved by a rotation.
- 13. (Previously Presented) The connection element as recited in claim 12, wherein the holder has at least three deformable webs in the region.
- 14. (Previously Presented) The connection element as recited in claim 9, wherein the holder has a symmetrical design und includes inserts to which the magnetic field sensor suite is directly connected.
- 15. (Currently Amended) A method for positioning a magnetic field sensor into a zero line

U.S. Patent Application No. 10/593,914
Attorney Docket No. 10191/4329
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of a magnetic field of a magnet in a connection element used for measuring force by a displacement between the magnet and the magnetic field sensor suite, comprising:

moving a holder on which the magnetic field sensor is situated in such a way that the magnetic field sensor is positioned into the zero line; and

affixing the holder with the connection element,

wherein the holder has a spring element so that when the holder is moved by a linear displacement, a clearance between the magnet and the magnetic field sensor is kept constant.

- 16. (Previously Presented) The method as recited in claim 15, further comprising: joining the holder to the connection element by laser welding.
- 17. (New) The connection element as recited in claim 11, wherein the spring element is attached to an edge of the sheet.
- 18. (New) The connection element as recited in claim 11, wherein the magnet field sensor is attached to a column attached to the sheet, an axis of the column being substantially perpendicular to a surface plane of the sheet.
- 19. (New) A force sensor for measuring force by a displacement between a magnet and a magnetic field sensor, comprising:
 - a sleeve,
- a bending element with a longitudinal axis, being attached to the sleeve and a substantial part of the bending element being inserted into the sleeve, wherein the bending element includes the magnet; and
- a holder with a longitudinal axis, the holder including the magnetic field sensor, wherein the holder is integrated with the bending element so that the magnetic field sensor is positioned into a zero line of a magnetic field of the magnet by a movement of the holder, and that the longitudinal axis of the holder is substantially perpendicular to the longitudinal axis of the bending element.
- 20. (New) The holder of the force sensor as recited in claim 19, further comprising a sheet, wherein the sheet is substantially perpendicular to the longitudinal axis of the holder.

U.S. Patent Application No. 10/593,914
Attorney Docket No. 10191/4329
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21. (New) The holder of the force sensor as recited in claim 20, wherein the holder is integrated with the bending element by affixing the sheet of the holder on a surface of the sleeve.